The **Wallys AI Edge AI Solution 70 TOPS Edge Computing Gateway** is a high-performance industrial edge computing platform designed for real-time AI inference, intelligent video analysis, and mission-critical IoT deployments.

Built on NVIDIA’s advanced computing architecture, this edge AI system delivers **up to 70 TOPS AI performance**, enabling powerful on-device processing without relying on cloud latency. It is ideal for environments where speed, reliability, and autonomy are essential—such as **smart cities, industrial automation, mining operations, transportation systems, and intelligent surveillance networks**.

At its core, the system integrates a **384-core NVIDIA Volta GPU architecture with 48 Tensor Cores**, delivering exceptional parallel processing capability for deep learning workloads. Combined with a **dual-core NVIDIA Denver 64-bit CPU and quad-core Arm Cortex-A57 MPCore processor**, it ensures balanced computing efficiency between AI inference, system control, and edge application management.

To support high-speed AI workloads, the platform is equipped with **8GB 128-bit LPDDR5 memory**, delivering up to **68 GB/s bandwidth**, ensuring smooth processing of large-scale data streams such as HD video analytics, multi-camera surveillance input, and real-time sensor fusion.

Storage flexibility is another key advantage. The system includes **16GB eMMC 5.1 onboard storage**, with expandable SSD options available in **128GB, 256GB, or 512GB configurations**, allowing users to scale storage based on application requirements such as video recording, dataset caching, or AI model deployment.

For connectivity and deployment flexibility, the AI edge gateway supports multiple wireless configurations including:

- Optional WiFi module
- Optional 4G LTE connectivity
- Combined WiFi + 4G wireless solution

This makes it suitable for both fixed installations and remote deployments where wired infrastructure is limited or unavailable.

Key AI Capabilities

- Video Analysis (real-time multi-stream processing)
- Object Detection & Tracking
- Behavior Recognition & Anomaly Detection
- Intelligent Alarm & Event Triggering
- Edge AI Decision Making without Cloud Dependency

Typical Application Scenarios

- Smart City Surveillance Systems
- Mining & Heavy Industry Automation
- Intelligent Transportation Systems (ITS)
- Industrial IoT & Smart Factory Monitoring
- Remote Infrastructure & Outdoor AI Deployment
- Security Monitoring & Perimeter Protection
- Robotics & Autonomous Machine Control

Why Choose This Edge AI Platform

Unlike traditional cloud-dependent AI systems, the Wallys Edge AI solution reduces latency, improves data security, and significantly lowers bandwidth costs by processing data locally at the edge.

It is designed for developers, system integrators, and industrial OEMs who require a **stable, scalable, and high-performance AI computing platform** that can operate in harsh environments and mission-critical scenarios.

With its powerful GPU architecture, flexible connectivity options, and industrial-grade reliability, this solution bridges the gap between cloud intelligence and real-world edge deployment.

AI EDGE COMPUTING
Video Analysis
Object Detection
Behavior Recognition
Intelligent Alarm
WiFi / 4G Wireless
AI
Edge AI Gateway
wallystech
COM1
USB3.2
USB3.1
GPIO
RUN
POWER
REC
RST
USB-OTG
RS232/422/485
R3322